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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/776,059	02/11/2004	Venkatachalam C. Jaiprakash	112020.143 US2 (Nan-19)	2111
23483 7	590 10/06/2006		EXAMINER	
WILMER CUTLER PICKERING HALE AND DORR LLP			MENZ, DOUGLAS M	
60 STATE STI	=		ART UNIT	PAPER NUMBER
BOSTON, MA	A 02109		2891	

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DATE MAILED: 10/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
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Office Action Summary	10/776,059	JAIPRAKASH ET AL.				
Office Action Summary	Examiner	Art Unit				
71 11411110 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Douglas M. Menz	2891				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tin  till apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONE					
Status						
1)⊠ Responsive to communication(s) filed on 10 Ju	lv 2006.					
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	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E						
Disposition of Claims						
4)⊠ Claim(s) <u>1-31</u> is/are pending in the application.						
4a) Of the above claim(s) <u>4-31</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) 1-3 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner	• ,					
10)⊠ The drawing(s) filed on <u>11 February 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11) ☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priori application from the International Bureau</li> <li>* See the attached detailed Office action for a list of</li> </ul>	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)    Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)   Information Disclosure Statement(s) (PTO/SB/08)   Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	(PTO-413) te				

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Lieber et al. (WO 01/03208).

Regarding claim 1, Lieber discloses a discrete electro-mechanical device, comprising:

a structure including an electrically-conductive trace (204, Fig. 8);

a defined patch of nanotube fabric (207, Fig. 8) disposed in spaced relation to the trace; and

wherein the defined patch of nanotube fabric is electromechanically deflectable between a first and second state, wherein in the first state the nanotube article is in spaced relation relative to the trace, and wherein in the second state the nanotube article is in contact with the trace (Fig. 8 and Pages 8-11); and

a low resistance signal path (via 212, Fig. 8 and Page 10, lines: 25-30) in electrical communication with the defined patch of nanofabric.

Regarding claim 2, Lieber further discloses wherein the low resistance signal path is a metal signal path in contact with the defined patch of nanotube fabric (Fig. 8 and Page 10).

Regarding claim 3, Lieber further discloses wherein the structure includes a defined gap (region 207, Fig. 8) into which the electrically conductive trace (204, Fig. 8) is disposed, wherein the defined gap has a defined width, and wherein the defined patch of nanotube fabric spans the gap and has a longitudinal extent that is slightly longer than the defined width of the gap (Fig. 8).

## Response to Arguments

Applicant's arguments, see Remarks, filed 7/10/06, with respect to the rejection(s) of claim(s) 1-3 under 102 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Applicant's clarification of "a defined patch of nanotube fabric".

Art Unit: 2891

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas M. Menz whose telephone number is 571-272-1877. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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